

MICROSPHERE DELIVERY OF MUCIN PEPTIDESABSTRACT OF THE DISCLOSURE

A mucin peptide, such as MUC-1, encapsulated in a biodegradable polymeric microsphere is disclosed. The encapsulated mucin peptide breaks tolerance of helper T cells as it elicits a stronger immune response and provides improved protection against tumor challenge than direct administration of peptide, alone or with an adjuvant. The encapsulated mucin peptide can be used in a vaccine composition, and can be used in a method for delivering a mucin peptide to a subject, as well as in a method treating or preventing a cancer associated with reduced glycosylation of MUC-1.

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